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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/017,381	12/18/2001	Thomas Golner	87304.1860	6417	
30734 7	10/19/2005		EXAMINER		
BAKER & HOSTETLER LLP WASHINGTON SQUARE, SUITE 1100			NGUYEN, TUYEN T		
1050 CONNECTICUT AVE. N.W.		100	ART UNIT	PAPER NUMBER	
WASHINGTO	N, DC 20036-5304		2832		
			DATE MAILED: 10/19/200	5	

Please find below and/or attached an Office communication concerning this application or proceeding.

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-	Application No.	Applicant(s)	
	10/017,381	GOLNER ET AL.	
Office Action Summary	Examiner	Art Unit	 _
	TUYEN T. NGUYEN	2832	
The MAILING DATE of this communication a	appears on the cover sheet wi	th the correspondence address	
A SHORTENED STATUTORY PERIOD FOR REF WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory peri - Failure to reply within the set or extended period for reply will, by sta Any reply received by the Office later than three months after the ma earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNIO 1.136(a). In no event, however, may a re- tiod will apply and will expire SIX (6) MON tute, cause the application to become AB	CATION. poly be timely filed . THS from the mailing date of this communic ANDONED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on 25			
'=	his action is non-final.		ha :a
3) Since this application is in condition for allow closed in accordance with the practice under the practice under the practice.	•	·	15 15
Disposition of Claims			
4) ☐ Claim(s) 1-21 is/are pending in the applicating 4a) Of the above claim(s) 9-21 is/are withdrates 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-8 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and	awn from consideration.		·
Application Papers	•		
9)☐ The specification is objected to by the Exam			
10) ☐ The drawing(s) filed on is/are: a) ☐ a	•	•	
Applicant may not request that any objection to t	• • • • • • • • • • • • • • • • • • • •		•440
Replacement drawing sheet(s) including the corr 11) The oath or declaration is objected to by the			
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the papplication from the International Bure * See the attached detailed Office action for a line in the internation of the certified copies of the papplication from the International Bure * See the attached detailed Office action for a line in the internation of th	ents have been received. ents have been received in A riority documents have been eau (PCT Rule 17.2(a)).	pplication No received in this National Stage	:
•	·		
Attachment(s)			
1) Notice of References Cited (PTO-892)		Summary (PTO-413)	
 Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/Paper No(s)/Mail Date 		s)/Mail Date nformal Patent Application (PTO-152) 	

DETAILED ACTION

Election/Restrictions

Applicant's election with traverse of group I, claims 1-8 in the reply filed on 7/25/2005 is acknowledged. The traversal is on the ground(s) that a thorough search for the subject matter of Group I claims would necessalily encompass a search and examination of the entire application without any serious burden. This is not found persuasive because claims of group II-III require search in other classes/areas.

The requirement is still deemed proper and is therefore made FINAL.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Randolph et al. [US 3,461,413] in view of Jones [US 2,007,161].

Randolph et al. discloses inductive component comprising:

- a molded bobbin [10] having a hollow portion;
- at least one core inserted into the hollow portion of the bobbin; and
- a copper shielding layer [29] formed on an outer surface of the winding portion [11] of the bobbin.

Randolph et al. discloses the instant claimed invention except for the specific of tubing.

Jones et al. discloses an induction device [figures 6-7] comprising:

Application/Control Number: 10/017,381

Art Unit: 2832

- a spool-like structure upon the winding can be wound;

- a core structure;

- a shielding structure [17]; and

- a cooling tube/channel/conduit [20, 25, 38, 43] arranged outside of the core structure;

and

- cooling water flows into the tube/channel/conduit.

It would have been obvious to one having ordinary skilled in the art at the time the invention was made to use the cooling tube/channel/conduit design of Jones et al. into Randolph et al. for the purpose of providing cooling for the transformer.

Regarding claim 3, thermal epoxy is a known material for the bobbin/spool. It would have been obvious to one having ordinary skilled in the art at the time the invention was made to use thermal epoxy for the bobbin of Randolph et al. for the purpose enhancing thermal properties.

Regarding claim 4, copper is a known material for heat transfer.

Regarding claims 5-6, the specific arrangement of the tubing would have been an obvious design consideration for the purpose of providing better heat transfer.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to TUYEN T. NGUYEN whose telephone number is 571-272-1996.

The examiner can normally be reached on M-F 8:30-6:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, ELVIN ENAD can be reached on 571-272-1990. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

TTN TTN

Tuyen T. Nguyen